

WHAT IS CLAIMED IS:

1        1.        An apparatus for waterproofing a terminal connecting portion of a  
2        sheathed wire, in which a terminal fitting and a bare conductor of the sheathed  
3        wire are connected with each other, by molding with resin, the apparatus  
4        comprising:

5                an upper mold having an inner space which defines an upper part of a  
6        molding cavity in which the terminal connecting portion of the sheathed wire is  
7        accommodated and molten resin is injected therein;

8                a lower mold having an inner space which defines a lower part of the  
9        molding cavity;

10               an upper elastic lid member provided with the upper mold; and

11               a lower elastic lid member provided with the lower mold, the upper  
12        and lower lid member elastically holding the sheathed wire therebetween when  
13        the connecting portion thereof is accommodated in the molding cavity,

14               wherein the inner space of the upper mold and the inner space of the  
15        lower mold is respectively narrowed toward the upper lid member and the  
16        lower lid member such that the molding cavity in the vicinity of the connecting  
17        portion of the sheathed wire has a fusiform shape.

1        2.        The waterproofing apparatus as set forth in claim 1, wherein the  
2        narrowed portions of the upper and lower molds are provided with radiating  
3        fins in which a plurality of concave grooves and convex ribs are alternately  
4        arranged.

1        3.        The waterproofing apparatus as set forth in claim 1, wherein the most  
2        narrowed portions of the narrowed portions define an aperture having a  
3        diameter which is substantially as same as a diameter of the sheathed wire.

1        4.        A terminal connecting portion of a sheathed wire which is  
2        waterproofed by the waterproofing apparatus as set forth in any of claims 1 to  
3        3, comprising a fusiform molded portion which covers and waterproofs the  
4        terminal connecting portion in which a terminal fitting and a bare conductor of  
5        the sheathed wire are connected with each other.